

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/56 H04L29/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX, IBM-TDB, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ERNST THIERRY: "Network Mobility Support in IPv6" THESIS DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE, 'Online! 29 October 2001 (2001-10-29), pages 5-99, XP002215680 Grenoble Retrieved from the Internet: <URL:http://www.inria.fr/> 'retrieved on 2002-10-01! abstract figures 1.5,2.1,3.1-3.5B,7.5,7.6 paragraphs '01.3!, '2.2.2.1!, '3.1.1.1!-'3.1.1.5!, '07.1 !, '7.1.3.1!	1-16, 18-20, 30-33
Y	---	17,21-29
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☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

26 August 2003

Date of mailing of the international search report

01/09/2003

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

Interna plication No
PC 03/04183

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	HU YIH-CHUN, JOHNSON DAVID B.: "Caching Strategies in On-Demand Routing Protocols for Wireless Ad Hoc Networks" MOBICOM 2000, 31 August 2000 (2000-08-31), pages 231-242, XP002215681 Boston MA abstract figure 1 paragraphs '001.!', '002.!', '03.1!' -----	17, 21-29
A	JOSH BROCH ET AL: "The Dynamic Source Routing Protocol for Mobile Ad Hoc Networks" IETF INTERNET DRAFT, 13 March 1998 (1998-03-13), XP002199758 abstract paragraphs '04.1!', '5.1.1!', '5.1.2!', '05.2!', '06.1!' -----	1-33

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-13, 21-23, and, in so far as referencing claim 1, claims 30-33

route optimisation in a data communication network, comprising the iterative search of an optimal destination address in a cache.

2. Claims: 14-18, and, in so far as referencing claim 14, claims 30-33

obtaining route information for source routing data packets in a mobile network, comprising the transmission of a first data packet via tunneling, and receiving route discovery feedback information from the intermediate nodes to be used for routing subsequent packets.

3. Claims: 19,20

communication message format for routing data packets over mobile routers, comprising the inclusion in the message of a destination address of the recipient and addresses of intermediate nodes.

4. Claims: 24-29, and, in so far as referencing claim 24, claims 30-33

building a linked binding cache, comprising the addition of pointers to a regular binding cache, if the intermediate address stored in an entry of the binding cache can be reached via another intermediate address present in the binding cache.

INTERNATIONAL SEARCH REPORT

Inte application No.
PCT/EP 03/04183

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.